

a half-inch objective, they all appeared two-celled, owing to the thickening of the apex, which often occupies half the length of the spore. This furnishes us another way of explaining the discrepancies of authors of an earlier day, without blaming them either with carelessness or wilful misrepresentation.

### ARTICLES IN JOURNALS.

- ARTHUR, J. C.—Interpretation of Schweinitzian and other Early Descriptions, *Am. Nat.* xvii, p. 77.
- BAKER, J. G.—A Synopsis of the Genus *Selaginella*, *Jour. Bot.* xxi, p. 1.
- BANNING, M. E.—Preservative for Fungi, *Torr. Bull.*, ix, p. 153.
- CAMPBELL, DOUGLASS H.—Development of the Male Prothallium of the Field Horsetail (with two plates), *Am. Nat.* xvii, p. 10.
- DYER, W. T. THISELTON.—The Sacred Tree of Kum-Bum, *Nature*, xxvii, p. 223.
- FORBES, F. BLACKWELL.—On the Chinese Plants collected by D'Incarville (1740-1757), *Jour. Bot.* xxi, p. 9.
- GRAY, ASA.—The Lignified Snake from Brazil, *Am. Jour. Sci.*, Ser. 3. xxv, p. 79.
- GREENE, E. L.—Note on *Holozonia filipes*. (Completing the generic description.) *Torr. Bull.* ix, p. 145.
- GROVES, HENRY and JAMES.—Notes on British Characeæ, *Jour. Bot.* xxi, p. 20.
- HOLLICK, ARTHUR.—Flora of Richmond Co., N. Y., *Torr. Bull.* ix, p. 149.
- KUNTZE, OTTO.—*Cinchona Ledgeriana* a Hybrid, *Jour. Bot.* xxi, p. 5.
- MACLOSKE, G.—Achenial Hairs and Fibers of Compositæ, *Am. Nat.* xvii, p. 31.
- MASTERS, MAXWELL T.—Double Flowers. (Especially with reference to specimens of *Tetrotluca ciliata*. Comment on Grant Allen's statement that petals are in all probability originally enlarged and flattened stamens.) *Nature*, xxvii, p. 126.
- MEEHAN, THOMAS.—Historical Notes on the Arbor Vitæ, *Proc. Acad. Philad.* 1882, p. 110: Liquid exudations in *Akebia* and *Mahonia*, l. c. p. 113: Heliotropism in Sunflowers, l. c. p. 222.
- MOHR, CHAS.—*Rhus cotinoides*, Nutt. (An account of its rediscovery.) l. c. p. 217.
- PETERS, DR.—The Female Flowers of Coniferæ. (Resume of discussion between Eichler and Celakovsky.) *Nature*, xxvii, p. 231.
- PLOWRIGHT, C. B.—On the British Bramble Phragmidia. *Sci. Gossip*, No. 217, p. 11.
- RANSOM, ARTHUR.—The Fertilization of Speedwell. (Criticisms on Stapley *infra*.) *Nature*, xxvii, p. 149.
- SCRIBNER, F. L.—List of Western Grasses. *Torr. Bull.* ix, p. 145.
- STAPLEY, A. MACKENZIE.—The Fertilization of Speedwell, *Nature*, xxvii, p. 127.
- WAGER, JOHN.—The Danish Forest, I. *Sci. Gossip*, No. 217, p. 14.
- WALLACE, ALFRED RUSSELL.—Debt of Science to Darwin, *Century*, xxv, p. 420.
- WATSON, SERENO.—A Monograph of the Genus *Lilium*. (A review of H. J. Elwes' Monograph.) *Am. Jour. Sci.* Ser. 3. xxv, p. 82.
- WRIGHT, S. H.—A New Variety of *Carex riparia*, *Torr. Bull.* ix, p. 151.
- YOUMANS, E. L.—Use of Gummy Secretions of Plants. (Editorial note de l'investigations.) *Pop. Sci. Mo.* xxii, p. 572.